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DATE: April 2, 2004

TO: Examiner FAX #: 703-872-9306  
 Group Art Unit:

PHONE #: 703-308-0477

Application No.: 10/772,102  
 Applicant: Kumar  
 Due Date: May 4, 2004

OUR REF.: 2950.21US02

FROM: Peter S. Dardi, Ph.D.  
 PHONE #: (612) 349-5746

Attached please find the following document for filing in the above-identified patent application:

- 1) Information Disclosure Statement (2 pages)
- 2) Form 1449/PTO (7 pages)

Sincerely,

Peter S. Dardi, Ph.D.  
 Reg. No. 39,650

## CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office, Fax No. 703-872-9306 on the date shown below thereby constituting filing of same.

April 2, 2004  
 Date

Peter S. Dardi

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## PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 2950.21US02

Kumar

Confirmation No.: Not Assigned

Application No.: 10/772,102

Examiner: Not Assigned

Filed: February 4, 2004

Group Art Unit: Not Assigned

For: HIGH LUMINESCENCE PHOSPHOR PARTICLES AND METHODS FOR  
PRODUCING THE PARTICLESINFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date. No certification or fee is required.

Copies of the references were cited by or submitted to the Office in Patent Application No. 09/843,195, filed April 26, 2001, now U.S. Patent No. 6,692,660, which is

Application No. 10/772,102

relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these references are not attached. 37 C.F.R. § 1.98(d).

Respectfully submitted,

Peter S. Dardi, Ph.D.  
Registration No. 39,650

Customer No. 24113  
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Peter S. Dardi

Substitute for form 1449/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
Sheet	1	of	7	Application Number	10/772,102	
				Filing Date	February 4, 2004	
				First Named Inventor	KUMAR	
				Art Unit	Not Assigned	
				Examiner Name	Not Assigned	
				Attorney Docket Number	2950.21US02	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL <sup>*</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		
		Number-Kind Code <sup>2</sup> <i>(if known)</i>				
		2,603,554	07/1952	Calbeck		
		2,610,154	09/1952	Brown, Jr.		
		2,854,413	09/1958	Geary		
		2,863,084	12/1958	Arnott et al.		
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		4,340,839	07/1982	Fujita et al.		
		4,680,231	07/1987	Yamaura et al.		
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> <i>(if known)</i>				
		WO 98/37165	08/1998	PCT		
		WO 99/23191	05/1999	PCT		
		WO 99/46204	09/1999	PCT		
		WO 99/50880	10/1999	PCT		
		WO 00/46867	08/2000	PCT		
		WO 00/54291	09/2000	PCT		
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

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		H429	02/1988	Harris et al.		
		4,738,798	04/1988	Mahler		
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		5,460,701	10/1995	Parker et al.		
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		5,498,369	03/1996	Bredol et al.	
		5,504,599	04/1996	Okibayashi et al.	
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		5,958,348	09/1999	Bi et al.	
		5,989,514	11/1999	Bi et al.	
		6,036,886	03/2000	Chhabra et al.	
		6,039,894	03/2000	Sanjurjo et al.	
		6,048,616	04/2000	Gallagher et al.	
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				Examiner Name	Not Assigned
Sheet	5	of	7	Attorney Docket Number	2950.21US02

**NON PATENT LITERATURE DOCUMENTS**

EXAMINER INITIAL	CITE NO. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Goldstein et al., Observation of Melting in 30A Diameter CdS NanoCrystals, Met. Res. Soc. Symp. Proc. Vol. 206, pp. 271-274, 1991	
		Curtin, The Field Emission Display: A New Flat Pane Technology, Conf. Rec. of the 1991 Int'l Display Res. Conf., pp. 12-15, October 1991	
		Tissue et al., Synthesis and Characterization of Metal-Oxide Nanocrystals Prepared by CO <sub>2</sub> - Laser-Heated Vaporization/Condensation, Journal of the SID, Vol. 4(3), pp. 213-217, October 1996	
		Siegel, Creating Nanophase Materials, Scientific American; 2 pages, December 1996	
		J.S. Yoo et al., The Effects of Particle Size and Surface Recombination Rate on the Brightness of Low-Voltage Phosphor, J. App. Phys. 81(6), 2810-2813, March 15, 1997	
		El-Shall et al., Synthesis of Nanoparticles by a Laser Vaporization-Controlled Condensation Technique, SPIE, Vol. 3123, pp. 98-108, July 1997	
		Oshio et al., Firing Technique for Preparing a BaMgAl <sub>10</sub> O <sub>17</sub> :Eu <sup>2+</sup> Phosphor with Controlled Particle Shape and Size, Journal of the Electrochemical Society, 146(1), pp. 392-399, 1999	
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		Ramponi et al., "New Er-doped phosphate glass for ion-exchange active waveguides: accurate determination of the refraction index," Optical Materials, 14, pp. 292-296.	
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		Lee et al., "Controlled formation of nanoparticles utilizing laser irradiation in a flame and their characteristics," Applied Physics Letters, Vol. 79, No. 15, pp. 2459-2461, October 8, 2001.				
		Vermelho et al., "The influence of sodium ions on rare-earth solubility in silicon-silicon SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glass hosts fabricated by flame hydrolysis deposition," Proceedings of SPIE, Vol. 4277, pp. 381-387, 2001.				
		Ballato et al., "Fabrication of fibers with high rare-earth concentrations for Faraday isolator applications," Applied Optics, Vol. 34, No. 30, pp. 6848-6854, October 20, 1995.				
		Chemical Abstract citation: 127:196928: Photocalorimetric measurement of the quantum efficiencies of phosphors," Zachau, Journ. Luminesc. (1997), 72-74, 792-793.				
		Chemical Abstract citation 111:143246: "Europium-doped strontium aluminum oxide (2SrO 3Al2O3) and barium calcium aluminum oxide (1.29(Ba,Ca)O <sub>6</sub> Al2O3). Two new blue emitting phosphors," Smets et al., Journ. Electrochem. Soc., (1989), 136(7), 2119-23.				
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		Jean et al., "Spherical BaMgAl10O17:eu2+ Phosphor Prepared by Aerosol Pyrolysis Technique for PDP Application," Jour. Electrochem. Soc., 149 (9), 2001, pp. H128-H131.				
		Chemical Abstract citation 132:327319: Blue emitting CaAl2O4:eu2+ phosphors for PDP application, Tanaka et al. Journ. Luminesc., (2000) 87-89, 1250-1253.				
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		Chemical Abstract citation "Photoluminescence imaging of phosphor particles using near-field optical microscope with UV light excitation," Nishikawa et al. Jour. Microscopy, (1999), 194 (2/3), 415-420.			
EXAMINER SIGNATURE				DATE CONSIDERED	
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.</small>					
<small>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</small>					
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